**Home Performance Assessment Report**

Assessment Date:

County: \_\_\_\_\_\_\_\_\_\_\_\_\_ County Agent: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Home Performance Professional: Name\_\_\_\_\_\_\_\_\_\_\_ Phone \_\_\_\_\_\_\_\_\_\_ E-Mail \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Customer: Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Phone \_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-Mail \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Home: Square footage \_\_\_\_\_\_Street Address \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ City \_\_\_\_\_\_\_\_\_\_\_\_\_ Zip \_\_\_\_\_\_\_\_\_

This report summarizes your home performance assessment findings, identifies opportunities to improve the performance of your home, makes recommendations, and identifies energy conservation measures included in the VECI Program (highlighted in yellow).

**Air Sealing:**

|  |  |
| --- | --- |
| **Location** | **Needs Sealing?** |
| Fireplace dampers and gaps around chimney | ☐Y ☐N ☐NA |
| Electrical outlets and switch plates | ☐Y ☐N ☐NA |
| Around window-mounted air conditioners | ☐Y ☐N ☐NA |
| Around exterior doors | ☐Y ☐N ☐NA |
| Attic hatch(es) or attic door(s) | ☐Y ☐N ☐NA |
| Dryer vent | ☐Y ☐N ☐NA |
| Kitchen exhaust fan | ☐Y ☐N ☐NA |
| Duct registers | ☐Y ☐N ☐NA |
| Ductwork in unconditioned space\* | ☐Y ☐N ☐NA |
| Crawlspace / basement ceiling | ☐Y ☐N ☐NA |
| Attic floor | ☐Y ☐N ☐NA |
| Unfinished spaces behind cupboards/closets | ☐Y ☐N ☐NA |
| Window frames | ☐Y ☐N ☐NA |
| Baseboards/top molding | ☐Y ☐N ☐NA |
| Plumbing penetrations\* | ☐Y ☐N ☐NA |
| Outdoor faucet | ☐Y ☐N ☐NA |
| Chases | ☐Y ☐N ☐NA |
| Recessed/Can lights | ☐Y ☐N ☐NA |
| Dropped soffits | ☐Y ☐N ☐NA |
| Plumbing vent stacks | ☐Y ☐N ☐NA |
| Other: |  |

\*Conduct basic, high priority sealing when possible, within contract restrictions (such as connecting and sealing disconnected ducts and sealing duct boots).

Description of ductwork condition and recommendations/actions taken (Report findings such as disconnected ducts, damaged flex/duct board, condition of duct boots to registers, etc.):

**Insulation:**

|  |  |
| --- | --- |
| **Location** | **Recommendations** |
| **Attic:**  Amount \_\_\_\_\_\_\_ Adequate amount? Y / N  R-Value \_\_\_\_\_\_\_ Proper R-value? Y / N  Installed correctly? Y / N |  |
| **Knee Walls:**  Amount \_\_\_\_\_\_\_ Adequate amount? Y / N  R-Value \_\_\_\_\_\_\_ Proper R-value? Y / N  Installed correctly? Y / N |  |
| **Basement and/or crawlspace:**  Amount \_\_\_\_\_\_\_ Adequate amount? Y / N  R-Value \_\_\_\_\_\_\_ Proper R-value? Y / N  Installed correctly? Y / N |  |
| **Ductwork** in unheated areas insulated? Y / N |  |
| Other: |  |

**Heating / AC System:**

|  |
| --- |
| **HVAC units** |
| *G=gas F=furnace B=boiler AC= air conditioning HP=heat pump R=Radiant GSHP=ground source HP* | | | | | |  | |
| Area served | Whole House | First Floor | Second Floor |  |
| HVAC Make |  |  |  |  |
| Tons\* |  |  |  |  |
| SEER\*\* |  |  |  |  |
| Furnace efficiency\*\*\* |  |  |  |  |
| Setback T'stat | Yes No | Yes No | Yes No | Yes No |  | |

*\*Model number on outside of unit \*\* On energy label. (NA if not available) \*\*\* Enter High if PVC vent pipe and NA If not available*

Main heating system is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ System efficiency \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Age \_\_\_\_

|  |  |  |
| --- | --- | --- |
| Condition | Filters | Condensate Line |
| ☐ Needs Tune-up  ☐ Needs Repair  ☐ Needs Replacing  ☐ Prog. Thermostat | Size(s): \_\_\_\_ \_\_\_\_  ☐ Need to be changed  ☐ Need to be cleaned  ☐ Properly installed | ☐ Blocked  ☐ Leaking  ☐ Needs to be repaired  ☐ Needs to be replaced |

**Cooling System:**

Main cooling system is: Central ☐ Room ☐ Heat pump ☐

System efficiency: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Age: \_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Component: | Overall | Blower | Coils | Airflow | Charge |
| Condition: | ☐ Good  ☐ Service needed | ☐ Good  ☐ Service needed | ☐ Good  ☐ Service needed | ☐ Good  ☐ Service needed | ☐ Good  ☐ Service needed |

**Heating / AC System: Assessment team will investigate rebate offers through utility company.**

**Water Heating System:**

Brand and Model: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Size: \_\_\_\_\_\_ Gallons: \_\_\_\_\_\_

Estimated system efficiency and/or age: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ☐ Older than 5 years

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Condition | Temperature Setting \_\_\_\_F | Location | Insulation | Showerheads |
| ☐ Good  ☐ Needs Repair  ☐ Needs Replacing | ☐ Needs adjusting  ☐ Is set correctly | Conditioned Space  ☐ Yes  ☐ No | ☐ Properly Insulated  ☐ Not Properly Insulated  ☐ Does not require insulation | \_\_\_\_ total #  \_\_ low flow # |

Recommend low flow showerhead be installed ☐ Yes ☐ No

**Lighting:** (E-Conservation Retrofit provides home with \_\_\_\_ CFL/LED bulbs)

\_\_\_\_ # incandescent bulbs \_\_\_\_ # CFL bulbs \_\_\_\_\_ # LED bulbs ☐

Lighting Efficiency: \_\_\_\_\_% of high-use lighting CFL/LED bulbs  \_\_\_\_\_% of all lighting CFL/LED bulbs

Lighting Recommendations:

**Appliances:**

|  |  |  |  |
| --- | --- | --- | --- |
| Appliance | Condition | Efficiency | Recommendations |
| Refrigerator: Age \_\_\_\_  Temp settings:  Fridge \_\_\_\_  Freezer \_\_\_\_ | ☐ Good  ☐ Needs Repair  ☐ Needs to be replaced | ☐ Energy Star? | ☐ Temps Need Adjusting  ☐ Door needs Sealing  ☐ Coils Need Cleaning  ☐ Other \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Dishwasher: Age \_\_\_\_ | ☐ Good  ☐ Needs Repair  ☐ Needs to be replaced | ☐ Energy Star? |  |
| Clothes washer: Age \_\_\_ | ☐ Good  ☐ Needs Repair  ☐ Needs to be replaced | ☐ Energy Star? |  |
| Clothes Dryer: Age \_\_\_ | ☐ Good  ☐ Needs Repair  ☐ Needs to be replaced | ☐ Energy Star? | ☐ Vents need cleaning |
| Other: |  |  |  |
| Other: |  |  |  |

**Water Conservation:**

|  |  |
| --- | --- |
| **Type** | **Opportunities to increase efficiency** |
| Low-flow showerheads | ☐ |
| Faucet aerators | ☐ |
| Replace older toilets with water efficient toilets | ☐ |
| Use native plants in yard to reduce watering demands | ☐ |
| Reduce grass/lawn areas with drought resistant plants or groundcover | ☐ |
| Use of a rain barrel for water collection | ☐ |

**Health and Safety:**

☐ Yes ☐ No Gas or oil leaks detected - Locations: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

☐ Yes ☐ No ☐ Inoperable CO Monitor - Locations: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

☐ Yes ☐ No ☐ Inoperable Smoke Detectors - Locations: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

☐ Yes ☐ No Heating/DHW sys venting issues - Description: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Locations with signs of moisture or durability issues:

☐ Windows

☐ Crawl/Basement

☐ Roof

☐ Soffits

☐ Interior:

☐ Sill plate

☐ Attic

☐ Walls

☐ Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Improperly vented, non-operable, or needs ventilation:**

☐ Master bath

☐ 2nd bath

☐ 3rd bath

☐ Dryer

☐ Range hood

☐ Crawlspace

☐ Whole-house

☐ Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Recommended Measures:**

**Higher Cost Measures: These changes will likely require a contractor**

|  |  |
| --- | --- |
| Buy new Energy Star appliance(s) | Refrigerator, washer, dishwasher |
| Contractor air sealing | See attached checklist |
| Contractor duct sealing | See attached checklist |
| Add attic insulation | Blow additional R-20 fiberglass or cellulose |
| Insulate the crawl space floor | Use R-19 unfaced batts. Support with tension wires every 2-feet. |
| Install crawl ground poly | Cover all exposed soil |
| Create a closed crawl space | See attached checklist |
| Install air tight, IC rated can lights |  |
| Install storm window |  |
| Install new 2-pane, low-E windows |  |
| Install new Energy Star heat pump | 12 SEER |
| Install new Energy Star Furnace | 90% plus efficiency and include sealed combustion |
| Install a solar hot water heater | Installation qualifies for 40% NC tax credit up to $1,400 |
| Renewable Energy | Adding renewable sources of energy like solar or wind to your home can reduce your monthly energy bill |

**Low Cost Measures:**

|  |  |
| --- | --- |
| Seal duct leak holes | See page 1 of report and handout # \_\_\_ |
| Seal air leakage holes |  |
| Install compact fluorescent bulbs | Especially in high use areas such as hall, living room, bath |
| Install low flow shower head |  |
| Install low-flow faucet aerators |  |
| Insulate hot water pipes | Especially first 10+ feet |
| Insulate & w/strip attic door/pull down stair |  |
| Replace HVAC filters |  |
| Insulate hot water tank | If in unconditioned space and more than 5 years old (safety precautions) |
| Improve attic insulation |  |
| Improve crawl space insulation |  |
| Install crawl ground poly | Remove debris. Cover all exposed soil |
| Improve whole house fan | See fact sheet |

**No Cost Measures:**

|  |  |
| --- | --- |
| Adjust HVAC thermostat(s) | At night and when at work |
| Set water heater at 110-120 degrees |  |
| Clean refrigerator coils | Use brush and vacuum |
| Check/Adjust Refrigerator temperature |  |
| Clean clothes dryer vent |  |

**Additional No Cost Measures:**

* Sign up for electric load credits - Air conditioning and Hot water
* Changing Habits - to use energy more efficiently:
* Wash clothes using full loads in cold water
* Use task lighting to focus light where you need it, rather than brightly lighting an entire room
* Seasonal Adjustments:
* Dress for seasons
* Change bedding for seasons
* During winter, open curtains or blinds on your south-facing windows during the day to allow sunlight to heat your home and close them at night to reduce the chill from cold windows
* During warmer weather, close curtains/blinds during the day to insulate your home more effectively
* Use fans to cool but remember, fans cool people, not rooms. Turn fans off in unoccupied rooms
* Keep your fireplace damper closed unless a fire is going
* Refrigerator/Freezer:
* Check/Adjust temperature (37° to 40°F for the refrigerator and 0°F for the freezer section)
* Keep full, even if only with water jugs. Mass stays cold more easily than air
* Clean coils using brush and vacuum
* Cover liquids and wrap foods. (Uncovered foods release moisture, making the compressor work harder.)
* Changing Habits - to reduce consumption:
* Adjust HVAC thermostat(s) at night, when at work, etc.
* Unplug equipment that continues to use energy when not in use (i.e. computers, chargers, printers)
* Turn off lighting/fans in unoccupied rooms
* Turn off appliances when not needed (Computer monitor, television, etc.)
* Dry clothes on a drying rack or clothes line
* Maintenance / Home Design:
* Do not place lamps or other heat sources near your thermostat
* Clean refrigerator coils using brush and vacuum
* Check/Adjust refrigerator and freezer temperatures
* Set water heater at 110-120 degrees
* Clean clothes dryer vent
* Create calendar reminders for filter check/change, HVAC tune-up, etc.

**Estimated Payback (time for measure to pay for itself in savings)**

**Estimated Cost (material and labor)**